BRUHAT BANAGLORE MAHANAGARA PALIKE

Excecutive Engineer Dasarahalli Division

DETAILED ESTIMATE

Name of Work: **Desilting and resetting of drain and re asphalting to Kempe gowda Nagar and Maheshwari Nagara roads Dasarahalli Ward No 15, T.Dasarahalli Sub Division**

Sub Code: 014-18-000010			Estimate Amount :	50.00		
			Dimensions			
	Description of Item	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Total Amount in Rs
	Removing and refixing stone slabs of drains and pointing in CM (1:3)								
	(Page No. 29, I.No. 5.33 of KPWD S.R 2018-19).).								
		sqm							
	Rate Analysis								
	Basic Rate in Rs			105.00					
	Add 6% Area Weightage			6.30					
	Total Rate in Rs.			**111.30**					
	Kempegowda Nagara								
	6th A Cross road		2	213.00	0.90		383.40		
	15% Damaged Slabs						57.51		
							325.89	**111.30**	**36271.56**
2	KSRRB 300-2. Earthwork excavation by manual means in hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3								
	(Page No 143., I.No.19.2of KPWD S.R 2018-19).								
		Cum							
	Rate Analysis								
	Basic Rate in Rs.			179.00					
	Lead calculation for 13.3km ((2x1.28x13.3)+57= 91.048)			91.05					
	Add 6% Area Weightage			10.74					
	Total Rate in Rs.			**280.79**					
	Desilting of Drain								
	Kempegowda Nagara								
	6th A Cross road		2	213.00	0.45	0.40	76.68		
	Road Work								
	1st cross		2	123.90	0.90	0.20	44.60		
	2nd cross		2	102.23	0.90	0.20	36.80		
	3rd Cross		2	100.16	0.90	0.20	36.06		
	4th Cross		2	380.00	0.90	0.20	136.80		
	Kempegowda Nagara Surrounding cross roads		2	250.00	0.90	0.20	90.00		
							420.94	**280.79**	**118196.14**
3	KSRB 15.2.1 Providing flush pointing to stone slab pavements, with cement mortar 1:3, after raking joints, nicely lining, including cost of materials, labour, curing complete as per specifications.								
		Sqm							
	(Page No & I.No.15.70 of KPWD S.R 2018-19).								
	Rate Analysis								
	Basic Rate in Rs.			44.00					
	Add 6% Area Weightage			2.64					
	Total Rate in Rs.			**46.64**					
	Kempegowda Nagara								
	6th A Cross road		2	213.00	0.90		383.40		
							383.40	**46.64**	**17881.78**

Description of Item	Unit / Rate	Nos	Dimensions L in m	B in m	D in m	Quantity	Rate in Rs.	Total Amount in Rs
providing precast slab of 100 mm thick including cost of all materials, labour, carriage,transportation,loading ,unloading,etc..complete as per the direction of engineer in charge								
Data Rate								
Data Rate in Rs	sqm 2337.00							
	for damges							
2% Damagtd Slabs in Sr.No Item No.1						57.51		
						57.51	**2337.00**	**134400.87**
KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3								
Basic Rate	6.00							
AW @ 6%	0.36							
Total	6.36							
Camber Correction of road								
Kempegowda Nagara								
1st cross	2	123.90	0.90		223.02			
2nd cross	2	102.23	0.90		184.01			
3rd Cross	2	100.16	0.90		180.29			
4th Cross	2	380.00	0.90		684.00			
Kempegowda Nagara Surrounding cross	2	250.00	0.90		450.00			
			Total		**1721.32**	**6.36**	**Sqm**	**10948.00**
6 KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No.155 I.No.20.18)								
Basic Rate	**1888.00**							
AW 6%	**113.28**							
Total	**2001.28**							
Camber Correction of road								
Kempegowda Nagara								
1st cross	2	123.90	0.90	0.15	33.45			
2nd cross	2	102.23	0.90	0.15	27.60			
3rd Cross	2	100.16	0.90	0.15	27.04			
4th Cross	2	380.00	0.90	0.15	102.60			
Kempegowda Nagara Surrounding cross	2	250.00	0.90	0.15	67.50			
					258.20	**2001.28**	**Cum**	**516727**
7 KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 (P.No.158 I.No.21.6)**Issue Basic Rate Date;02.11.2021 to till now**								
Basic Rate	**32.00**							
AW 6%	**1.92**							
Total	**33.92**							

	Description of Item	Unit / Rate	Nos	Dimensions			Quantity	Rate in Rs.	Total Amount in Rs
				L in m	B in m	D in m			
	Camber Correction of road								
	Kempegowda Nagara								
	1st cross	2	123.90	0.90		223.02			
	2nd cross	2	102.23	0.90		184.01			
	3rd Cross	2	100.16	0.90		180.29			
	4th Cross	2	380.00	0.90		684.00			
	Kempegowda Nagara Surrounding cross	2	250.00	0.90		450.00			
						1721.32	**33.92**	**Sqm**	**58387**
	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 (P.No.158 I.No.21.2)								
	Basic Rate	**6.00**							
	AW 6%	**0.36**							
	Total	**6.36**							
	Camber Correction of road								
	Kempegowda Nagara								
	1st cross	1	123.90	6.20		768.18			
	2nd cross	1	102.23	6.00		613.38			
	3rd Cross	1	100.16	5.80		580.93			
	4th Cross	1	380.00	6.20		2356.00			
	Kempegowda Nagara Surrounding cross	1	250.00	6.00		1500.00			
						5818.49	**6.36**	**Sqm**	**37006**
9	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5								
	Issue Basic Rate Date;02.11.2021 to till now	**12.00**							
	AW 6%	**0.72**							
	Total	**12.72**							
	Kempegowda Nagara								
	1st cross	1	123.90	6.20		768.18			
	2nd cross	1	102.23	6.00		613.38			
	3rd Cross	1	100.16	5.80		580.93			
	4th Cross	1	380.00	6.20		2356.00			
	Kempegowda Nagara Surrounding cross roads	1	250.00	6.00		1500.00			
						5818.49	**12.72**	**Sqm**	**74011**
10	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No.161 I.No.21.17.6) **Issue Basic Rate Date;02.11.2021 to till now**								
	Basic Rate	**8062.00**							
	AW 6%	**483.72**							
	Total	**8545.72**							

Description of Item	Unit / Rate	Nos	Dimensions			Quantity	Rate in Rs.	Total Amount in Rs
			L in m	B in m	D in m			
Camber Correction of road								
Kempegowda Nagara								
1st cross	2	123.90	0.90	0.05	11.15			
2nd cross	2	102.23	0.90	0.05	9.20			
3rd Cross	2	100.16	0.90	0.05	9.01			
4th Cross	2	380.00	0.90	0.05	34.20			
Kempegowda Nagara Surrounding cross	2	250.00	0.90	0.05	22.50			
					86.07	**8545.72**	**Cum**	**735497**
KSRRB M500-19. Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 509 complete in all respects complete as per specifications. - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % CRMB 55 (P.No.158 I.No.21.23.6) **Issue Basic Rate Date;02.11.2021 to till now**									
Basic Rate	**9617.00**							
AW 6%	**577.02**							
Total	**10194.02**							
Kempegowda Nagara								
1st cross	1	123.90	6.20	0.04	30.73			
2nd cross	1	102.23	6.00	0.04	24.54			
3rd Cross	1	100.16	5.80	0.04	23.24			
4th Cross	1	380.00	6.20	0.04	94.24			
Kempegowda Nagara Surrounding cross	1	250.00	6.00	0.04	60.00			
					232.74	**10194.02**	**Cum**	**2372551**
2 KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (P.No.185 I.No.24.15)								
Basic Rate	**429.00**							
AW 6%	**25.74**							
Total	**454.74**							
Kempegowda Nagara								
1st cross	2	123.90		0.10	24.78			
2nd cross	2	102.23		0.10	20.45			
3rd Cross	2	100.16		0.10	20.03			
4th Cross	2	380.00		0.10	76.00			
Kempegowda Nagara Surrounding cross	2	250.00		0.10	50.00			
					191.26	**454.74**	**Sqm**	**86973**
							Sub Total	**4198849.81**
							Add 12% Towards GST Charges	**503861.98**
							Tender premium 5%	**209942.49**
							Miscellaneous Charges	**373.06**
							Grand Total	**5000000.00**

Certificate:-

1. That the workspot inspected by me and found work is necessary.
2. That the area comes with in the Bruhat Bangalore Mahanagara Palike Limits.
3. That the rates are adopted based on the PWD SR of 2018-19
4. That the provisions made in the estimate are necessary and quite essential.

Assistant Engineer
Ward No.14

Assistant Executive Engineer
Dasarahalli Sub-Division

Executive Engineer
Dasarahalli Division

ADMINISTRATIVELY SANCTIONED FOR

(Rupees Fifty Lakhs only

₹-0190

Under the Head of Account

Mayor's Road-

Registered as no EE(D.D.)/AS 49/21-22 Subject

to conditions contained in Enclosed Memo

No. CE/DD/DS/49/21-22 Dt. 13-01-22

Exe. Engr

JE/AE. (DASARAHALLI) BBMP

Technically Sanctione for Rs. 50.00 Lakhs

Rs. In words Rupees fifty

Lakhs only

Under ₹-0190

Job Code No. 015-18-000010

Registered as CE No. 71/14-01-2022 Subject

to conditions contained in Enclosed Memo

No. CE/DZ/TS/71/2021-22 Dt. 14-01-2022

AE/JE. TA CE(D)